

1 (1) 81. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise; and  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management.

1 82. A resource management system as in claim 81, wherein said deficiency  
2 database includes information on deficiencies of a resource relating to at least one of  
3 resource attributes, characteristics, performance, life, cost, efficiency, failure modes,  
4 compatibility, life cycle cost, quality of construction and mean time between failure, for  
5 at least one of the resource itself and differences between the resource and a given  
6 resource, a best-in-class resource and an enterprise objective.

1 83. A resource management system as in claim 81, wherein said deficiency  
2 database includes information regarding deficiencies relating to interactions among  
3 resources.

1 84. A resource management system as in claim 81, wherein said deficiency  
2 database includes information regarding deficiencies of at least one of operating

3 resources, manufacturing resources and human resources.

1 85. A resource management system as in claim 81, further comprising:  
2 an access unit coupled to said processor and arranged to enable a user to  
3 access information on a deficiency related to a selected resource used in the enterprise.

1 86. A resource management system as in claim 81 or 85, further comprising:  
2 a storage unit coupled to said processor and arranged to store the  
3 deficiency database and the resource database.

1 87. A resource management system as in claim 81 or 85, further comprising:  
2 an entry unit arranged to enable additional information to be added to at  
3 least one of the deficiency database and resource database.

1 88. A resource management system as in claim 81 or 84, wherein said  
2 deficiency database includes information on cost impacts of deficiencies.

1 89. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and

6 suitable programming.

1 129. A resource management system as in claim 120 or 127, further  
2 comprising:

3 a resource combination analyzer coupled to the deficiency database and  
4 resource database and responsive to identification of an enterprise objective to determine  
5 a preferred combination of resources to meet the enterprise objective, said resource  
6 combination analyzer comprising the processor with suitable programming.

1 130. A resource management system as in claim 120, further comprising:

2 a resource combination evaluator coupled to the deficiency database and  
3 resource database and responsive to identification of a combination of resources to  
4 indicate deficiencies relating to the combination of resources, said resource combination  
5 evaluator comprising the processor with suitable programming.

1 131. A resource management system as in claim 120 or 130, further  
2 comprising:

3 a compatibility analyzer coupled to the deficiency database and resource  
4 database and responsive to characteristic of a first resource to determine a modification  
5 which, when made, enables the first resource to be compatible with a second resource,  
6 said compatibility analyzer comprising the processor with suitable programming.

1 132. A process, comprising the steps of:

2 providing a deficiency database including information regarding  
 3 deficiencies of resources;  
 4 providing a resource database including information about resources used  
 5 in an enterprise; and  
 6 deriving, with access to the deficiency database and resource database,  
 7 information regarding a characteristic of a resource based on one or more deficiencies  
 8 related to at least one resource used in the enterprise, the derived information usable for  
 9 resource management.

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1 133. A process as in claim 132, wherein the first step comprises:  
 2 providing a deficiency database including information on deficiencies of a  
 3 resource relating to at least one of resource attributes, characteristics, performance, life,  
 4 cost, efficiency, failure modes, compatibility, life cycle cost, quality of construction and  
 5 mean time between failure, for at least one of the resource itself and differences between  
 6 the resource and a given resource, a best-in-class resource and an enterprise objective.


1 134. A process as in claim 132, wherein the first step comprises:  
 2 providing a deficiency database including information regarding  
 3 deficiencies relating to interactions among resources.

1 135. A process as in claim 132, wherein the first step comprises:  
 2 providing a deficiency database including information regarding  
 3 deficiencies of at least one of operating resources, manufacturing resources and human

4 resources.

1 136. A process as in claim 132, wherein the first step comprises:  
2 providing a deficiency database including information on cost impacts of  
3 deficiencies.

1 137. A process as in claim 132 or 133, wherein the third step comprises:  
2 deriving, in response to a value for the estimated life of a resource and to  
3 information regarding a deficiency of the resource, a determination regarding effects of  
4 use of the resource relative to an operating objective of the enterprise.

 1 138. A process as in any one of claims 132, 133 and 134, wherein the third step  
2 comprises:  
3 deriving, with access to the deficiency database and responsive to a  
4 deficiency related to a resource, an estimate of the life of the resource.

1 139. A process as in any one of claims 132, 133 and 134, wherein the third step  
2 comprises:  
3 deriving, with access to the deficiency database and responsive to a  
4 deficiency related to a resource, information on a failure mode associated with the  
5 resource.

1 140. A process as in any one of claims 132, 133 and 134, wherein the third step

2 comprises:

3 deriving, with access to the deficiency database and responsive to an  
4 indication of a failure mode of a resource, information on at least one deficiency related  
5 to the indicated failure mode of the resource.

1 141. A process as in any one of claims 132, 133, 134 and 136, wherein the third  
2 step comprises:

3 deriving, with access to the deficiency database and responsive to a  
4 deficiency related to a resource, a life cycle cost estimate regarding the resource and said  
5 deficiency.

1 142. A process as in any one of claims 132, 133 and 134, wherein the third step  
2 comprises:

3 deriving, with access to the deficiency database and resource database and  
4 responsive to identification of an enterprise objective, an indication of a preferred  
5 combination of resources to meet the enterprise objective.

1 143. A process as in any one of claims 132, 133 and 134, wherein the third step  
2 comprises:

3 deriving, with access to the deficiency database and resource database and  
4 responsive to identification of a combination of resources, an indication of deficiencies  
5 relating to the combination of resources.

1           144. A process as in any one of claims 132, 133 and 134, wherein the third step  
2 comprises:

3           deriving, with access to the deficiency database and resource database and  
4 responsive to characteristic of a first resource, information on a modification which,  
5 when made, enables the first resource to be compatible with a second resource.

1           145. A process as in any one of claims 132, 133 and 134, wherein the third step  
2 comprises:

3           deriving, with access to the deficiency database and responsive to  
4 information on a failure of a resource, information on possible causes of failure of the  
5 resource.

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1           146. A process, comprising the steps of:  
2           providing a deficiency database including information regarding  
3 deficiencies of resources and deficiencies relating to interactions among resources;  
4           providing a resource database including information about at least one of  
5 resources used in an enterprise and other resources; and  
6           deriving, with access to the deficiency database and resource database and  
7 responsive to identification of resources, information regarding deficiencies related to  
8 interactions among resources, the derived information usable for resource management.

1           147. A process as in claim 146, wherein the first step comprises:  
2           providing a deficiency database including information regarding

7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and

10 an efficiency analyzer, responsive to a value for the estimated life of a  
11 resource and to information regarding a deficiency of the resource, to provide a  
12 determination regarding effects of use of the resource relative to an operating objective of  
13 the enterprise, said efficiency analyzer comprising the processor with suitable  
14 programming.

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cont.*  
1 90. A resource management system as in claim 89, wherein said deficiency  
2 database includes information on deficiencies of a resource relating to at least one of  
3 resource attributes, characteristics, performance, life, cost efficiency, failure modes,  
4 compatibility, life cycle cost, quality of construction and mean time between failure, for  
5 at least one of the resource itself and differences between the resource and a given  
6 resource, a best-in-class resource and an enterprise objective.

1 91. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or



8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and


10 an enterprise performance database including information regarding  
11 entities of the enterprise and predictions, decisions and actions of such entities; and  
12 an accountability assignor coupled to the enterprise performance database  
13 and responsive to an indication of a deficiency to identify an entity responsible for a  
14 prediction, decision or action resulted in the deficiency, said accountability assignor  
15 comprising the processor with suitable programming.

92. A resource management system as in claim 91, wherein said deficiency  
database includes information regarding deficiencies relating to interactions among  
resources.

93. A resource management system, comprising:  
a deficiency database including information regarding deficiencies of  
resources and information on resource life related to at least one said deficiency;  
a resource database including information about resources used in an  
enterprise;  
a processor coupled to the deficiency database and resource database and  
arranged to provide information regarding a characteristic of a resource based on one or  
more deficiencies related to at least one resource used in the enterprise, the provided  
information usable for resource management; and  
a resource life estimator, coupled to the deficiency database and

11 responsive to a deficiency related to a resource, to provide an estimate of the life of the  
12 resource, said resource life estimator comprising the processor with suitable  
13 programming.

1 94. A resource management system as in claim 93, wherein said deficiency  
2 database includes information regarding deficiencies relating to interactions among  
3 resources.

 1 95. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources and including for a resource information on at least one failure mode associated  
4 with at least one deficiency related to a resource;  
5 a resource database including information about resources used in an  
6 enterprise;  
7 a processor coupled to the deficiency database and resource database and  
8 arranged to provide information regarding a characteristic of a resource based on one or  
9 more deficiencies related to at least one resource used in the enterprise, the provided  
10 information usable for resource management; and  
11 a failure mode predictor, coupled to the deficiency database and  
12 responsive to a deficiency related to a resource, to identify a failure mode associated with  
13 the resource, said failure mode predictor comprising the processor with suitable  
14 programming.

15           96.    A resource management system as in claim 95, wherein said deficiency  
16    database includes, for a resource, display information relating to a failure mode  
17    corresponding to a failure of the resource, the system further comprising:  
18                    means for prompting a user, by use of said display information, to identify  
19    a failure mode by comparison of said display information to the failure of the resource.

1           97.    A resource management system as in claim 95, further comprising:  
2                    a deficiency identifier, coupled to the deficiency database and responsive  
3    to an indication of a failure mode of a resource, to identify at least one deficiency related  
4    to the indicated failure mode of the resource, said deficiency identifier comprising the  
5    processor with suitable programming.

1           98.    A resource management system as in claim 97, wherein said deficiency  
2    database includes for a resource information on at least one corrective action associated  
3    with a failure mode, and the deficiency analyzer is responsive to an indication of a failure  
4    mode of a resource to identify at least one corrective action related to the failure mode.

1           99.    A resource management system, comprising:  
2                    a deficiency database including information regarding deficiencies of  
3    resources and life cycle cost information;  
4                    a resource database including information about resources used in an  
5    enterprise;  
6                    a processor coupled to the deficiency database and resource database and

7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and  
10 a life cycle cost analyzer, coupled to the deficiency database and  
11 responsive to a deficiency related to a resource, to provide a life cycle cost estimate  
12 regarding the resource and said deficiency, said life cycle cost analyzer comprising the  
13 processor with suitable programming.

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1 100. A resource management system as in claim 99, wherein said deficiency  
2 database includes information regarding deficiencies relating to interactions among  
3 resources.

1 101. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management;  
10 a competitive price database including competitive pricing information  
11 about resources; and

12 a pricing analyzer coupled to the competitive price database and  
13 responsive to information regarding a desired resource to provide an indication of a  
14 price for the desired resource, said pricing analyzer comprising the processor with  
15 suitable programming.

1 102. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and  
10 a resource combination analyzer coupled to the deficiency database and  
11 resource database and responsive to identification of an enterprise objective to determine  
12 a preferred combination of resources to meet the enterprise objective, said resource  
13 combination analyzer comprising the processor with suitable programming.

1 103. A resource management system as in claim 102, wherein said deficiency  
2 database includes information on deficiencies of a resource relating to at least one of  
3 resource attributes, characteristics, performance, life, cost, efficiency, failure modes,  
4 compatibility, life cycle cost, quality of construction and mean time between failure, for

5 at least one of the resource itself and differences between the resource and a given  
6 resource, a best-in-class resource and an enterprise objective.

1 104. A resource management system as in claim 102, wherein said deficiency  
2 database includes information regarding deficiencies relating to interactions among  
3 resources.

1 105. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and  
10 a resource combination evaluator coupled to the deficiency database and  
11 resource database and responsive to identification of a combination of resources to  
12 indicate deficiencies relating to the combination of resources, said resource combination  
13 evaluator comprising the processor with suitable programming.

1 106. A resource management system as in claim 105, wherein said deficiency  
2 database includes information regarding deficiencies relating to interactions among

3 resources.

1 107. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management;  
10 a resource specification database including information regarding  
11 manufactured resource; and  
12 a resource specifier coupled to the resource specification database and  
13 responsive to identification of a desired resource to provide a specification for the desired  
14 resource, said resource specifier comprising the processor with suitable programming.

1 108. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources and at least one corrective action associated with a deficiency of a resource;  
4 a resource database including information about resources used in an  
5 enterprise;  
6 a processor coupled to the deficiency database and resource database and

7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and

10 means to access at least one corrective action associated with a deficiency  
11 of a resource, said means comprising the processor with suitable programming.

1 109. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;

4 a resource database including information about resources used in an  
5 enterprise;

6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and

10 a compatibility analyzer coupled to the deficiency database and resource  
11 database and responsive to characteristic of a first resource to determine a modification,  
12 which when made, enables the first resource to be compatible with a second resource,  
13 said compatibility analyzer comprising the processor with suitable programming.

1 110. A resource management system as in claim 109, wherein said deficiency  
2 database includes information regarding deficiencies relating to interactions among  
3 resources.



1 111. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources, including human resources of the enterprise;  
4 a resource database including information about resources used in an  
5 enterprise and skill levels required for tasks within the enterprise;  
6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and  
10 a compatibility analyzer coupled to the deficiency database and resource  
11 database and arranged to indicate deficiencies in the association of a human resource  
12 with a resource of the enterprise, said compatibility analyzer comprising the processor  
13 with suitable programming.

1 112. A resource management system as in claim 111, wherein said deficiency  
2 database includes information regarding deficiencies of at least one of operating  
3 resources, manufacturing resources and human resources.

1 113. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources and deficiencies relating to interactions among resources;  
4 a resource database including information about resources used in an

5 enterprise;

6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or  
8 more deficiencies related to at least one resource used in the enterprise, the provided  
9 information usable for resource management; and

10 a deficiency analyzer, coupled to the deficiency database and responsive  
11 to identification of a combination of resources, to identify deficiencies related to  
12 interactions among resources of the combination.

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1 114. A resource management system as in claim 113, wherein said deficiency  
2 database includes information on deficiencies of a resource relating to at least one of  
3 resource attributes, characteristics, performance, life, cost, efficiency, failure modes,  
4 compatibility, life cycle cost, quality of construction and mean time between failure, for  
5 at least one of the resource itself and differences between the resource and a given  
6 resource, a best-in-class resource and an enterprise objective.

1 115. A resource management system, comprising:  
2 a deficiency database including information regarding deficiencies of  
3 resources;

4 a resource database including information about resources used in an  
5 enterprise;

6 a processor coupled to the deficiency database and resource database and  
7 arranged to provide information regarding a characteristic of a resource based on one or

8 more deficiencies related to at least one resource used in the enterprise, the provided  
 9 information usable for resource management; and  
 10 a failure analyzer coupled to the deficiency database and responsive to  
 11 information on a failure of a resource to identify possible causes of failure of the  
 12 resource, said failure analyzer comprising the processor with suitable programming.

1 116. A resource management system as in claim 115, wherein the failure  
 2 analyzer is arranged to indicate a corrective action.

1 117. A resource management system as in claim 115, wherein the failure  
 2 analyzer is arranged to determine a specification for a product for replacement to the  
 3 resource subject to the failure.

1 118. A resource management system as in claim 117, wherein the failure  
 2 analyzer is arranged to provide installation instructions for said product.

1 119. A resource management system as in claim 115, wherein said deficiency  
 2 database includes information regarding deficiencies relating to interactions among  
 3 resources.

1 120. A resource management system, comprising:  
 2 a deficiency database including information regarding deficiencies of  
 3 resources and deficiencies relating to interactions among resources;

4 a resource database including information about at least one of resources  
 5 used in an enterprise and other resources; and  
 6 a processor coupled to the deficiency database and resource database and  
 7 responsive to identification of resources to provide information regarding deficiencies  
 8 related to interactions among resources, the provided information usable for resource  
 9 management.

1 121. A resource management system as in claim 120, wherein said deficiency  
 2 database includes information regarding deficiencies of at least one of operating  
 3 resources, manufacturing resources and human resources.

1 122. A resource management system as in claim 120, further comprising:  
 2 an access unit coupled to said processor and arranged to enable a user to  
 3 access information on deficiencies related to interactions among resources.

1 123. A resource management system as in claim 120, further comprising:  
 2 an access unit coupled to said processor and arranged to enable a user to  
 3 identify a combination of resources and access information related to interactions among  
 4 the identified resources.

1 124. A resource management system as in claim 120 or 123, further  
 2 comprising:  
 3 a storage unit coupled to said processor and arranged to store the

4 deficiency database and the resource database.

1 125. A resource management system as in claim 120 or 123, further  
2 comprising:

3 an entry unit arranged to enable additional information to be added to at  
4 least one of the deficiency database and resource database.

1 126. A resource management system as in claim 120 or 121, wherein said  
2 deficiency database includes information on cost impacts of deficiencies.

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1 127. A resource management system as in claim 120, wherein the deficiency  
2 database includes information on at least one failure mode associated with at least one  
3 deficiency related to an interaction among resources, the system further comprising:  
4 a failure mode predictor, coupled to the deficiency database and  
5 responsive to a deficiency related to an interaction among resources, to identify a failure  
6 mode associated with said interaction, said failure mode predictor comprising the  
7 processor with suitable programming.

1 128. A resource management system as in claim 120 or 127, further  
2 comprising:  
3 a deficiency identifier, coupled to the deficiency database and responsive  
4 to identification of a combination of resources, to identify deficiencies related to the  
5 combination of resources, said deficiency identifier comprising the processor with

3 deficiencies of at least one of operating resources, manufacturing resources and human  
4 resources.

1 148. A process as in claim 146, wherein the first step comprises:  
2 providing a deficiency database including information on cost impacts of  
3 deficiencies.

1 149. A process as in claim 146, wherein the first step comprises:  
2 providing a deficiency database including information on at least one  
3 failure mode associated with at least one deficiency related to an interaction among  
4 resources.

1 150. A process as in claim 149, wherein the third step comprises:  
2 deriving, with access to the deficiency database and responsive to a  
3 deficiency related to an interaction among resources, an indication of a failure mode  
4 associated with said interaction.

1 151. A process as in any one of claims 146, 147 and 149, wherein the third step  
2 comprises:  
3 deriving, with access to the deficiency database and responsive to  
4 identification of a combination of resources, an indication of deficiencies related to the  
5 combination of resources.

1           152. A process as in any one of claims 146, 147, 148 and 149, wherein the third  
2 step comprises:

3                   deriving, with access to the deficiency database and resource database and  
4 responsive to identification of an enterprise objective, an indication of a preferred  
5 combination of resources to meet the enterprise objective.

1           153. A process as in any one of claims 146, 147 and 148, wherein the third step  
2 comprises:

3                   deriving, with access to the deficiency database and resource database and  
4 responsive to identification of a combination of resources, an indication of deficiencies  
5 relating to the combination of resources.

1           154. A process as in any one of claims 146, 147, 148 and 149, wherein the third  
2 step comprises:

3                   deriving, with access to the deficiency database and resource database and  
4 responsive to characteristic of a first resource, information on a modification, which  
5 when made, enables the first resource to be compatible with a second resource.

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